

SYSRPC - Basic Functionality

Only applicable to Natural RPC Version 5.1.

The SYSRPC utility window contains all elements needed to maintain a service directory and execute all relevant commands and functions.

Below is information on:

- Invoking SYSRPC
- Terminating SYSRPC
- Navigation Tree
- Menu Bar
- Toolbar
- Context Menu

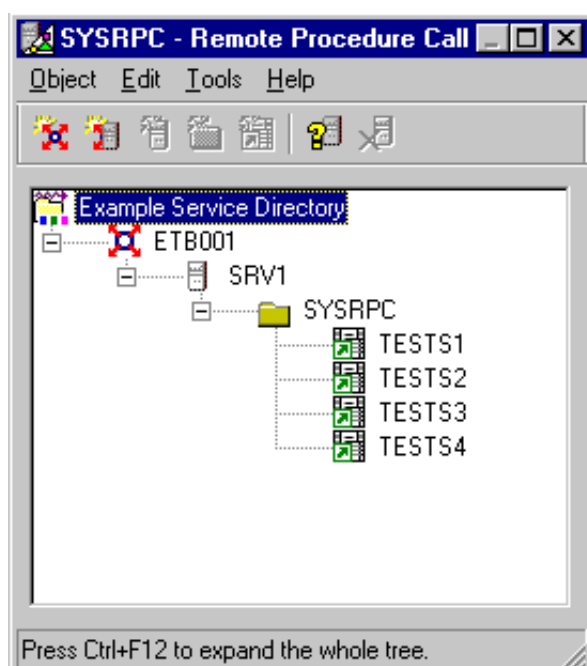
Invoking SYSRPC

► To invoke the SYSRPC utility window from the Natural main window

1. From the tree directory, choose a library.
2. From the Tools menu, choose Configuration Tools and Remote Procedure Call.
Or, in the command line, enter the system command SYSRPC.

The SYSRPC utility window appears and displays the service directory tree for the library specified. This is indicated in the name of the directory root node: Service Directory [*library-name*].

When you invoke SYSRPC for the first time for a library, as shown in the example below, the service directory tree contains example (dummy) data. In addition, the name of the service directory root node is Example Service Directory which will change to Service Directory [*library-name*]; for a list of possible root names, see Root Node Names in the section Service Directory Maintenance.



From the SYSRPC utility window you can invoke all functions available for RPC maintenance:

Service Directory Maintenance
(under Natural RPC 5.1 or current Natural RPC)
Stub Generation
Parameter Maintenance
Server Command Execution
(under Natural RPC 5.1 or current Natural RPC)

See the corresponding sections for a description of these functions.

Terminating SYSRPC



To exit the SYSRPC utility

- In the SYSRPC utility window, from the Object menu, choose Exit.
Or choose ALT+F4.
Or choose the standard Windows close function.

If a window appears with a message saying that the subprogram NATCLTGS is missing (needed at runtime), choose Yes to confirm the generation of NATCLTGS.

Navigation Tree

The navigation tree in the SYSRPC utility window displays all items (tree nodes) required for service directory maintenance. Do not confuse a tree node of the Service Directory with the Node used for the remote call, for example, EntireX Broker name.

To manipulate the tree nodes, use the commands and functions provided with the menu bar, the toolbar and the context menu as described below.

See Service Directory Maintenance for further information on tree nodes.

You can expand or collapse the tree structure by clicking the plus (+) or minus (-) sign in front of an item. Alternatively, you may choose the ARROW keys. Double-click an expandable node to display all items available for this node.



To expand all nodes of the Tree

- In the SYSRPC utility window, right-click the root node and choose Expand Tree.
Or choose CTRL-F12.



Menu Bar








Below is a list of commands and functions available with the menus of the SYSRPC utility window:

Menu	Command	Explanation
Object	Open	Opens a service directory (for example, NATCLTGS). Enter a DBID (database ID) and FNR (file number) for an object stored in a local library.
	Save	Saves a tree node modification.
	Save As	Saves a service directory in another library.
	Properties	Invokes the "Properties of Service Directory ..." box. It provides information on the generation of the service directory: <div> <div>Object</div> <div>The name of the service directory.</div> </div> <div> <div>Generated by</div> <div>The name of the Natural utility.</div> </div> <div> <div>Environment</div> <div>If the directory was generated in a local environment, the value "local" will be displayed. Otherwise, the name of a remote server is displayed.</div> </div> <div> <div>Library</div> <div>The name of the library in which the service directory was generated.</div> </div> <div> <div>User</div> <div>The ID of the user who generated the service directory.</div> </div> <div> <div>Time stamp</div> <div>The day and the time on/at which the service directory was last modified.</div> </div> <div> <div>Expiration</div> <div>The remote directory data are loaded at runtime. The expiration time determines the period of validity of this data. If directory data are requested after the expiration time set, they will automatically be reloaded. If expiration time is set to 0 seconds, the remote directory data will not be reloaded.</div> </div>
	Exit	Terminates SYSRPC.
	New Item	Creates a new node item. Depending on the tree node selected, you have the following choices: <div> <div>Node</div> <div>Logical Service (EntireX)</div> <div>Natural RPC Server</div> <div>Library</div> <div>Service (subprogram)</div> </div> See also Definition of Terms in the overview page of the Natural RPC documentation and Location Transparency in the section Service Directory Maintenance for an explanation of relevant expressions.
	Rename	Modifies the name of a tree node.
	Delete	Removes a tree node.
Edit	Cut, Copy, Paste	Cuts, copies or pastes a tree node.

Menu	Command	Explanation
Tools	Parameter	Invokes the Parameter Maintenance function. See the relevant section.
	Ping	Sends an internal message to verify server connections. See the section Command Execution.
	Terminate	Sends an internal message to terminate server connections. See the section Command Execution.
	Stub Generation	Invokes the Stub Generation function. See the relevant section.
Help		Displays SYSRPC help text: SYSRPC Utility - Overview Command Execution (Ping, Terminate) LOGON Option Transport Method Location Transparency Navigation Tree Stub Generation

Toolbar

The toolbar buttons represent the following menu commands:

-  Add New Node Item (Edit menu)
-  Add New Logical Service (EntireX) Item (Edit menu)
-  Add New Natural RPC Server Item (Edit menu)
-  Add New Library Item (Edit menu)
-  Add New Service/Subprogram (Edit menu)
-  Ping Natural RPC Server(s) (Tools menu)
-  Terminate a Natural RPC Server (Tools menu)

Context Menu

The context menu provides alternative ways of executing the commands and functions provided with the menu and the toolbar of the SYSRPC utility window.

Attention:

In addition to the SYSRPC menu and the toolbar, as described in Service Directory Maintenance, the context menu provides:

- the command Expand Tree as described under Navigation Tree above,
- the LOGON Option (see Service Directory Maintenance) and
- the option to specify the Transport Method (see Service Directory Maintenance).

The context menu does **not** offer the Parameter Maintenance function as described in the relevant section.